Operations & Asset Management

A Foundation Integration Model

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Background

• ISO TC184/SC4 - Industrial Data

- Issues on interoperability of STEP Application Protocols (AP's)
- Lack of interoperability between ISO10303, ISO13584, ISO15926, MANDATE
- WG10 Technical Architecture and Methodology
 - Preliminary Work Item on AP Modularisation
 - Preliminary Work Item SC4 Data Architecture
 - To provide the capability for the different SC4 data standards to be used together, and with other non-SC4 data standards to exchange, integrate and share industrial data
 - A data integration environment



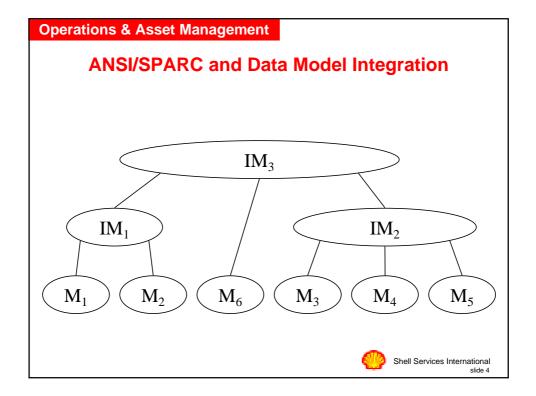
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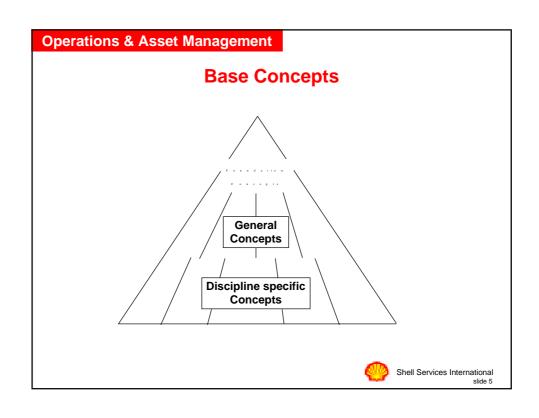
A Data Integration Environment

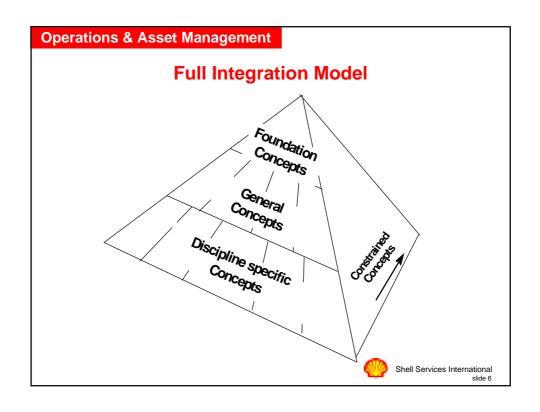
- An integration data model able to support the different data requirements,
- A mapping methodology to define how data is migrated from one model to another,
- A consolidation methodology that defines how data sets are merged to eliminate duplicate information about the same object,
- Extensions to EXPRESS to support the development of a data model that crosses levels of abstraction,
- A low level data language capable of describing data and data models across different data modelling languages, i.e. languages in addition to EXPRESS.

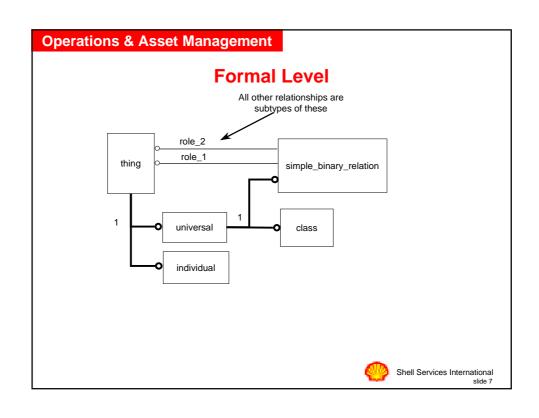
This paper looks at the first of these

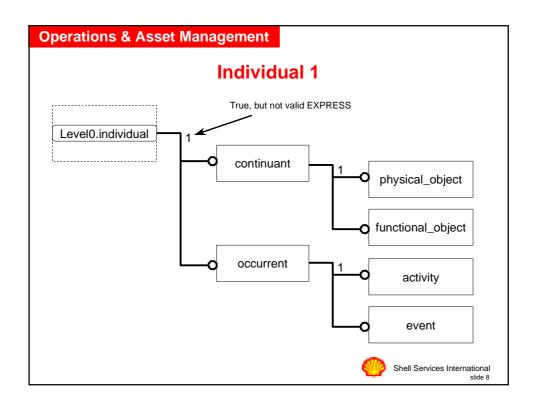


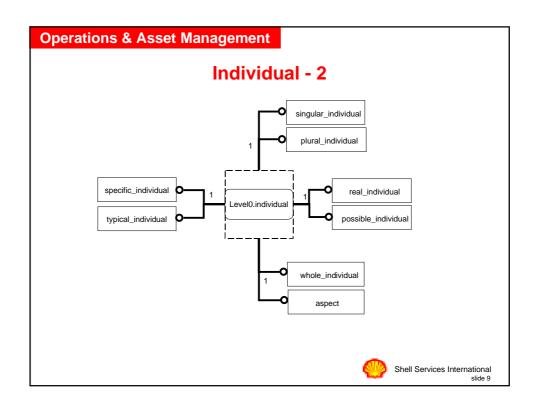


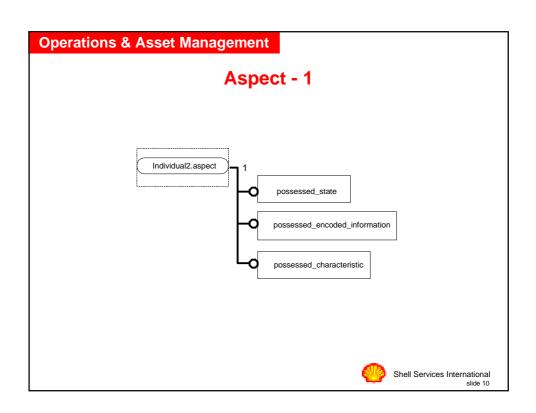


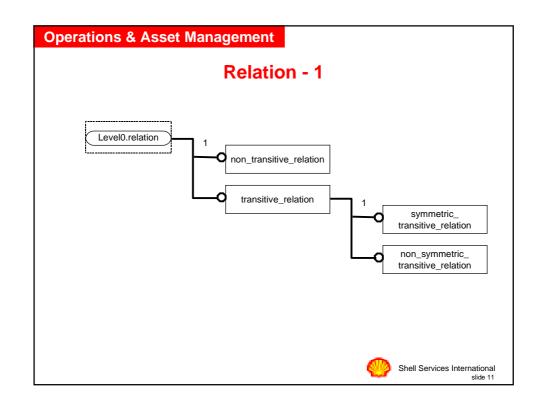


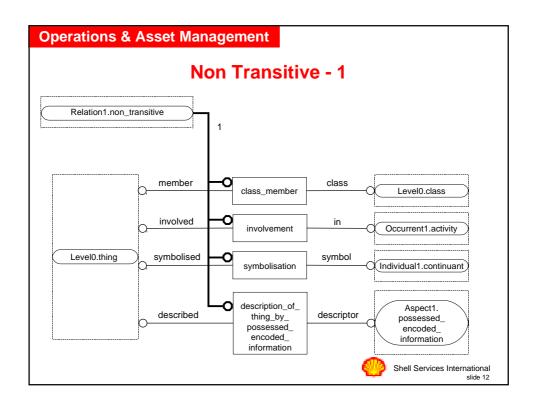


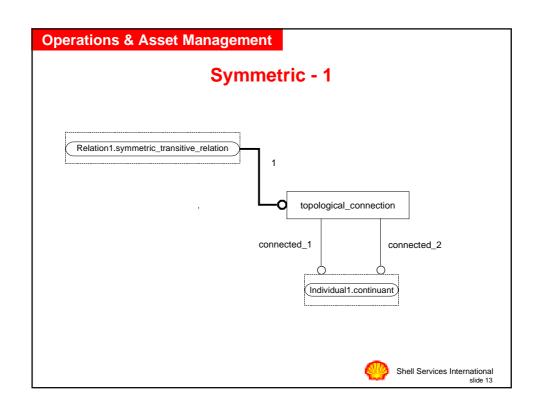


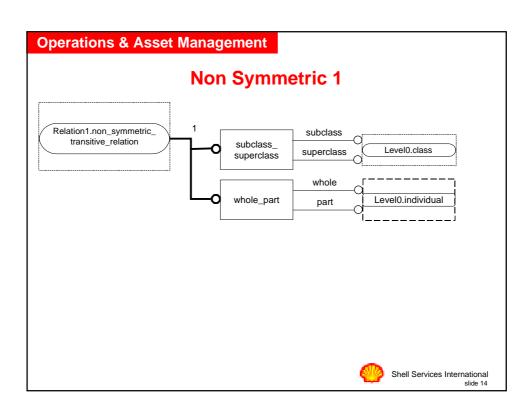


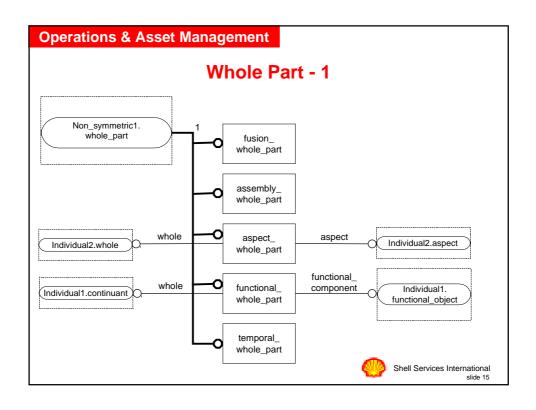












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Conclusions & Next Steps

Conclusions

- A start has been made on developing a Foundation Integration model
- · A number of base concepts have been identified

Next Steps

- The model needs to be tested against a range of requirements
- The model needs to be extended, and a methodology for extension developed
- Other parts of the architecture need to be developed

Questions?

